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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,792		07/02/2003	Adam Jude Ahne	2002-0168.01	5453
21972	7590	01/13/2006		EXAMINER	
		NATIONAL, IN OPERTY LAW D	GHATT,	GHATT, DAVE A	
		CLE ROAD	ART UNIT	PAPER NUMBER	
BLDG. 082			2854	.	
LEXINGTO	N, KY	40550-0999	DATE MAILED: 01/13/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/612,792	AHNE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Dave A. Ghatt	2854					
The MAILING DATE of this communication app							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	L. lely filed the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>04 No</u>	ovember 2005.						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
 4) ☐ Claim(s) 1-71 is/are pending in the application. 4a) Of the above claim(s) 1-45 and 56-71 is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 46-51,53 and 54 is/are rejected. 7) ☐ Claim(s) 52 and 55 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	withdrawn from consideration.						
Application Papers							
9) The specification is objected to by the Examiner	•	,					
10)⊠ The drawing(s) filed on <u>02 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioric application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage					
Attachment(s)	_						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
Paper No(s)/Mail Date 7/03,3/05,8/05.		atent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

1. Claims 1-45 and 56-71 withdrawn from further consideration pursuant to 37 CFR
1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on November 4, 2005.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 46, 47, 48, 49, 51, 53, and 54 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsumoto (US 4,604,632). Insofar as structure is broadly recited, Matsumoto teaches the claimed apparatus. With respect to claims 46 and 49, as shown in Figures 1A and 1B, Matsumoto teaches an apparatus comprising a printhead carriage 26 for carrying a printhead 26A. Figure 2 also shows a perforator carriage 30A for carrying a perforator mechanism 31. Insofar as structure is recited, Figures 1B and 4 teach an isolation damper 27 coupling the printhead carriage 26 to the perforator carriage 30A.

With respect to claim 47, as shown in Figure 1A, and as outlined in column 2 lines 16-26, Matsumoto teaches having a motor for driving each of the carriages in a reciprocating manner.

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With respect to claim 48, as shown in Figures 1A and 1B, Matsumoto teaches a mid-frame 23 positioned to support the back side of the sheet of print media, the mid-frame 23 including a trough 45 for receiving the perforation device after the perforation device passes through the sheet of print media.

With respect to claim 51, as shown in Figures 1B, 3A, and 3B, Matsumoto teaches the perforation device is one of a needle 31C and a blade (the edge portion of 45).

With respect to claim 53, insofar as structure is recited, Figures 3A and 3B of Matsumoto teach multiple perforation devices (31D, 31C).

With respect to claim 54, as shown in Figure 1B, Matsumoto teaches a first roller 15a positioned upstream of said perforation forming mechanism, and a second roller 15b positioned downstream of said perforation forming mechanism, the sheet of print media being suspended between said first roller and the second roller during perforation.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 46, 47, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Petersen et al. (US 5,363,123) in view of Schmitt (US 4,564,470). Insofar as structure is broadly recited, Petersen and Schmitt teach the claimed apparatus. With respect to claims 46 and 49, as shown in Figures 1 and 2, Petersen teaches an apparatus comprising a printhead carriage 20 for

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carrying a printhead. Figure 2 also shows a cutter carriage 40 for carrying a cutting mechanism. Insofar as structure is recited, Figures 2-4, and column 3 lines 25-35 teach an isolation damper (70, 80) coupling the printhead carriage to the cutter carriage. In fact, Petersen teaches all the claimed subject matter, except Petersen teaches a cutter as opposed to a perforator and perforator carriage. Schmitt teaches a printing processing apparatus that includes a longitudinal cutter similar to that of Petersen. As outlined in column 3 lines 50-60, Schmitt teaches an embodiment in which a cutter is substituted for a perforator. In view of this teaching of Schmitt, it would have been obvious to one of ordinary skill in the art to substitute a perforator as taught by Schmitt in the apparatus of Petersen, for the advantage of having optional functions such as perforating and/or scoring, as taught by Schmitt in column 3 lines 52-55.

With respect to claim 47, column 1 lines 41-43 teach the primary reference Petersen having a motor for driving each of the carriages in a reciprocating manner.

6. Claim 50 is rejected under 35 U.S.C. 103(a) as being unpatentable over Petersen et al. (US 5,363,123) in view of Schmitt (US 4,564,470) as applied to claim 46 above, in view of Engel (US 5,019,028). Insofar as structure is broadly recited, Petersen and Schmitt, in view of Engel teach the claimed apparatus. As outlined above, Petersen and Schmitt teaches all the claimed structure, except for the broad requirement for a maintenance station including an abrasive member. Column 10 lines 15-28 of Engel teach a maintenance station including an abrasive member. To one of ordinary skill in the art, it would have been obvious to include the teaching of Engel in the apparatus of Petersen and Schmitt in order to automatically sharpen the working edges, as taught by Engel in column 10 lines 19-20.

Allowable Subject Matter

7. Claims 52 and 55 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 52 is indicated as having allowable subject matter because the prior art of record does not teach or render obvious the total combination claimed, including a controller configured to select at least one of a vertical perforation resolution and a horizontal perforation resolution.

Claim 55 is indicated as having allowable subject matter because the prior art of record does not teach or render obvious the total combination claimed, including a D-shaped guide rod, a motor coupled to the D-shaped guide rod, and a controller connected to the motor to operate the motor to impart a rotation to the D-shaped guide rod.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave A. Ghatt whose telephone number is (571) 272-2165. The examiner can normally be reached on Mondays through Friday 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew H. Hirshfeld can be reached on (571) 272-2168. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAG

ANDREW H. HIRSHFELD SUPERVISORY PATENT EXAMMER

TECHNOLOGY CENTER 2800